

In Stock

Used and in Excellent Condition

Open Web Page

https://www.artisantg.com/51556-1

All trademarks, brandnames, and brands appearing herein are the property of their respective owners.

- Critical and expedited services
- In stock / Ready-to-ship

- We buy your excess, underutilized, and idle equipment
- · Full-service, independent repair center

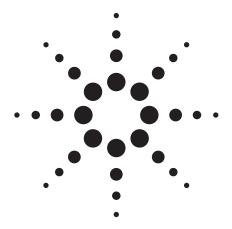


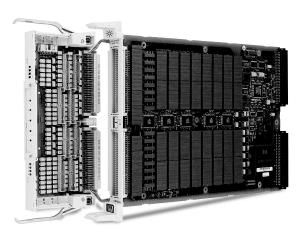
Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group

(217) 352-9330 | sales@artisantg.com | artisantg.com

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.





Agilent E8460A with Opt. 014

Agilent E8460A 256-Channel Reed Relay Multiplexer

Data Sheet

- 1-slot, C-size, register based
- High-density, low-cost multiplexer
- Fast scanning rate
- Flexible reconfiguration
- Contact protection for reliable operation
- Three different easy-to-use terminal blocks available as ontions

Description

The Agilent Technologies E8460A High-Density Reed Relay Multiplexer is a **C-size**, **1-slot**, **register-based VXI module**. This 256-channel multiplexer, using reed relay switches, offers a fast, reconfigurable, high point-count switching topology. It is designed for applications requiring fast scanning rates by the use of fast action reed relays. This single-slot multiplexer extends the choices of multiplexers available to the system engineer.

The E8460A can be programmed into individual topologies; some common examples are shown in the table below. Many other combinations of these topologies are supported (in addition to those shown in the table). Two-wire, three-wire, and four-wire measurements can be configured.

Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.

Common Multiplexer Configurations

One 256 x 1 Four 64 x 1
One 128 x 2 Two 32 x 4
One 64 x 3 Sixteen 16 x 1

•
•
•



Accessories

A terminal block does not come with the module. Three different terminal blocks are available as options: one for crimp-and-insert connectors, one for ribbon cable connectors, and the other for fault-tolerant protection of DUT inputs, where each channel has a positive temperature coefficient resistor that behaves like a resettable fuse and will increase impedance when excessive current is flowing in a channel.

One 2.5-in. analog bus cable (E1400-61605) is included to connect the analog busses of multiple slot-adjacent E8460A modules or a slot-adjacent E1411B multimeter module. The analog bus cable, easily installed at the faceplate of the component card, lets you connect the E8460A with the E1411B DMM.

Product Specifications

Input

Note: These limits apply only if no connection is made to power mains.

Maximum Input				
	With Opt. 012 Terminal Card	With Opt. 014 or Opt. 015 Terminal Card	Analog Bus	
Maximum dc voltage:	200 V	60 V	60 V	
Max. ACrms voltage:	140 V	50 V*	30 V	
Max. ACpeak voltage:	200 V	70.7 V	42 V	
Max. current per channel:				
Switching:	300 mA	100 mA	n/a	
Carry:	500 mA	100 mA	n/a	
Maximum power per channel: 5 VA Maximum power (resistive load):				
Per channel:	5 VA			
Per common output:	5 VA			
Per module:	60 V	Ą		
*Rating reduced to 30 Vac-rms, 42 Vac-peak for exposed conductors.				

dc Performance

Typical thermal offset

± 50 μV

(per channel): Closed channel resistance:

 $<\!\!3~\Omega$ with output protection resistor shorted, protection resistor adds

100 Ω

100

ac Performance

Bandwidth, 50 Ω Source/Load

Configuration 100 Ω Protection Resistor Shorted 256 x 1: 4.5 MHz

 256 x 1:
 4.5 MHz

 64 x 1:
 12.0 MHz

 16 x 1:
 30.0 MHz

Closed Channel Capacitance

Configuration	To Chassis	To Open Channel
256 x 1:	1400 pF	70 pF
64 x 1:	460 pF	70 pF
16 x 1:	140 pF	70 pF

Open channel to either open channel or to chassis capacitance:

70 pF

Hi-to-Low Capacitance (2-Wire Mode)

Capacitance
400 pF
230 pF
80 pF

Crosstalk				
Configuration	10 kHz	100 kHz	1 MHz	10 MHz
256 x 1 (channel to				
chassis):	-84 dB	-64 dB	-44 dB	-30 dB
64 x 1:	-84 dB	−64 dB	-44 dB	−27 dB
16 v 1·	_83 4B	_6/ dB	_/// dB	_2/1 dB

General Characteristics	
Relays:	Reed relays
Open/close time:	0.5 ms max.
Minimum relay life: No load:	500 M operations
Rated load:	10 M operations (Max. rated resistive load)
Power up/down state:	All open

General Specifications

VXI Characteristics	
VXI device type:	Register based
Data transfer bus:	A16, slave only
Size:	С
Slots:	1
Connectors:	P1/P2
Shared memory:	None
VXI buses:	None

Instrument Drivers - See the Agilent Technologies Website (http://www.agilent.com/find/inst_drivers) for driver availability and downloading.

Command module firmware:	Downloadable
Command module firmware rev:	A.08
I-SCPI Win 3.1:	No
I-SCPI Series 700:	No
C-SCPI LynxOS:	No
C-SCPI Series 700:	No
Panel Drivers:	No
VXI <i>plug&play</i> Win Framework:	No
VXI <i>plug&play</i> Win 95/NT Framework:	Yes
VXI <i>plug&play</i> HP-UX Framework:	No

Module Current			
	I _{PM} (A)	I _{DM} (A)	
+5 V:	1.7	0.4	
+12 V:	0	0	
–12 V:	0	0	
+24 V:	0	0	
–24 V:	0	0	
–5.2 V:	0	0	
−2 V:	0	0	

Cooling/Slot		
Watts/slot:	8.5	
Δ P mm H ₂ O:	0.05	
Air Flow liter/s:	0.7	

Ordering Information

Description	Product No.
256-Channel Reed Relay Multiplexer	E8460A*
Crimp and Insert Connector Terminal Block	E8460A 012**
Fault Tolerant Terminal Block	E8460A 014***
Ribbon Cable Connector Terminal Block	E8460A 015***
Service Manual	E8460A 0B3
3 yr. retn. to Agilent to 1 yr. OnSite warr.	E8460A W01

- Notes:

 * Standard unit does not include terminal block. One of the terminal block options must be ordered.

 ** Crimp-and-Insert Contacts are not included. See the Interconnect and Wiring section for information on ordering Crimp-and-Insert Contacts.

 *** Ribbon cables and mating connectors are not included. See ordering details

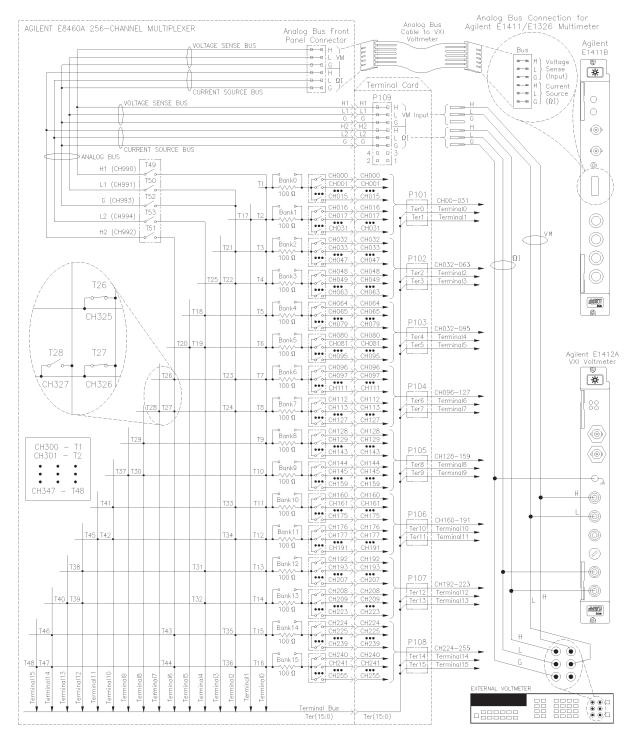
Recommended 3M Mating Socket and Cable

Part Description	Oty Required per Terminal Card	3M Part Number
Socket (without strain relief)	8 sockets either with or without strain relief	3414-6600
Socket * (with strain relief)	8 sockets either with or without strain relief	3414-6606
Metal strain relief *(low profile) Flat cable (34 conductor)	8 * Length as needed	3448-2034 3365/34

^{*} Required only for socket with strain relief.

Manufacturer Ordering Information

3M Electronic Products Division 6801 River Place Blvd. Austin, TX 78726-9000 Phone 800-225-5373



Agilent E8460A Simplified Schematic

Agilent Technologies' Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

By internet, phone, or fax, get assistance with all your test & measurement needs.

Online assistance: www.agilent.com/find/assist

Phone or Fax United States: (tel) 1 800 452 4844

Canada: (tel) 1 877 894 4414 (fax) (905) 282 6495

China: (tel) 800 810 0189 (fax) 1 0800 650 0121

Europe: (tel) (31 20) 547 2323 (fax) (31 20) 547 2390

Japan: (tel) (81) 426 56 7832 (fax) (81) 426 56 7840

Korea: (tel) (82 2) 2004 5004 (fax) (82 2) 2004 5115

Latin America: (tel) (305) 269 7500 (fax) (305) 269 7599

Taiwan: (tel) 080 004 7866 (fax) (886 2) 2545 6723

Other Asia Pacific Countries: (tel) (65) 375 8100 (fax) (65) 836 0252 Email: tm_asia@agilent.com

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2001 Printed in USA September 1, 2001 5965-8829E



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at artisantg.com for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today? (217) 352-9330 | sales@artisantg.com | artisantg.com

